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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/621,843	07/16/2003	Shinji Matsushita	03418/LH	1800	
	7590 04/05/200 OLTZ, GOODMAN &	EXAMINER			
220 Fifth Aven	ue	YODER III, CHRISS S			
16TH Floor NEW YORK, N	NY 10001-7708	ART UNIT	PAPER NUMBER		
		2622			
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MO	NTHS	04/05/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		A	pplication No.	Applicant(s)		
Office Action Summary		1	0/621,843	MATSUSHITA, S	MATSUSHITA, SHINJI	
		E	xaminer	Art Unit		
		C	hriss S. Yoder, III	2622		
Period fo	The MAILING DATE of this communi or Reply	cation appea	rs on the cover sheet v	with the correspondence a	address	
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE Mansions of time may be available under the provisions of time may be period for reply is specified above, the maximum state to reply within the set or extended period for reply reply received by the Office later than three months at ed patent term adjustment. See 37 CFR 1.704(b).	AILING DATI of 37 CFR 1.136(a unication. tutory period will a will, by statute, cau	E OF THIS COMMUN). In no event, however, may a pply and will expire SIX (6) MO use the application to become a	ICATION. The reply be timely filed ONTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).		
Status						
1)[\	Responsive to communication(s) file	d on 16 July	2003			
,	· '		tion is non-final.		•	
3)	<u>'</u>					
٠,٠	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims	·	•	·		
- 4)⊠	Claim(s) 1-18 is/are pending in the a	pplication				
•/2.3	4a) Of the above claim(s) is/ar		from consideration.			
5)□	Claim(s) is/are allowed.					
	Claim(s) <u>1-18</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
·—	Claim(s) are subject to restric	tion and/or el	ection requirement.			
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	ion Papers					
•	The specification is objected to by the		\571			
10)⊠	The drawing(s) filed on 12 December	•		•	iminer.	
	Applicant may not request that any object					
441	Replacement drawing sheet(s) including		-	· · · · · · · · · · · · · · · · · · ·	• •	
11)[_]	The oath or declaration is objected to	by the Exam	liner. Note the attache	ed Office Action or form F	210-152.	
Priority (under 35 U.S.C. § 119		,			
•	Acknowledgment is made of a claim t All b) Some * c) None of: 1. Certified copies of the priority of		·	§ 119(a)-(d) or (f).		
	2. Certified copies of the priority			Application No		
	3. Copies of the certified copies of			• •	al Stage	
	application from the Internation	-		Trocorda ir and radione	ai olugo	
* 9	See the attached detailed Office action		* **	ot received.		
Attachmer	nt(s)					
	ce of References Cited (PTO-892)		4) Interview	Summary (PTO-413)		
2) 🔲 Notic	ce of Draftsperson's Patent Drawing Review (P	TO-948)	Paper No	o(s)/Mail Date		
	mation Disclosure Statement(s) (PTO/SB/08)		5)	Informal Patent Application		
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DETAILED ACTION

Claim Objections

Claims 6 and 14 are objected to because of the following informalities:

Claim 6 is written to be dependent on claim 10, however, claim 6 is identical to claim 15, which already depends from claim 10. Therefore, the Examiner believes claim 6 should depend from claim 1, and will be examined as understood by the examiner.

Claim 14 is written to be dependent on claim 1, however, claim 14 is identical to claim 5, which already depends from claim 1. Therefore, the Examiner believes claim 14 should depend from claim 10, and will be examined as understood by the examiner.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sannoh et al. (US PGPub # 2002/0149689).
- 2. In regard to claim 1, note Sannoh discloses the use of an imaging device, comprising an electronic camera which images an observation image (paragraph 0030 and figure 1), a display which displays the observation image imaged by the electronic camera and photograph information of the observation image (paragraph 0042 and

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figure 1:17), and a display setting portion which controls the display and sets display of the photograph information (paragraphs 0041-0042).

Therefore, it can be seen that Sannoh fails to disclose that the imaging device is used with a microscope. Official Notice is taken that the concepts and advantages of using a digital camera with a microscope are notoriously well known and expected in the art. Therefore, it would have been obvious to one of ordinary skill in the art to modify the Sannoh device to be used in conjunction with a microscope in order to provide a real time display of microscopic objects to more than one user through the use of a display means as well as allowing the storage of a permanent copy of the observed image by recording the captured data.

- 3. In regard to claim 2, note Sannoh discloses that the display setting portion sets at least one of a line color, a line width and a line type (paragraph 0044).
- 4. In regard to claim 3, note Sannoh discloses that the photograph information of the observation image includes at least one of a photometry, a focus, a color balance and a scale (paragraph 0043).
- 5. In regard to claim 4, note Sannoh discloses that the display setting portion sets at least one of a line color, a line width and a line type (paragraph 0044).
- 6. In regard to claim 5, note Sannoh discloses the use of an imaging device that displays the observation image along with photograph information and adjusts the color of the photograph information (paragraph 0044). Therefore, it can be seen that Sannoh fails to disclose the use of a complementary color generator which sets a display color of the photograph information to a complementary color of a background image of the

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observation image. Official Notice is taken that the concepts and advantages of using a complementary color generator to adjust the color of data that is to be displayed along with the image based on the color of the background of the image are notoriously well known and expected in the art. Therefore, it would have been obvious to one of ordinary skill in the art to modify the Sannoh device to include the use of a complementary color generator which sets a display color of the photograph information to a complementary color of a background image of the observation image in order to prevent the photograph information from disappearing in the image in the event that the image background and the photograph information are the same color.

7. In regard to claims 6-7, note Sannoh discloses the use of an imaging device that displays the observation image along with photograph information, as claimed in claim 1 above. Therefore, it can be seen that the Sannoh device lacks the use of a color determination unit which determines a color for each one pixel of a background image of the observation image, a histogram computing unit which computes a histogram for each color determined by the color determination unit, and that the display controller sets a display color of a plurality of sets of the photograph information based on the computed histogram. Official Notice is taken that the concepts and advantages of using a color determination unit and histogram computing unit to calculate the number of pixels of each color within an image in order to adjust the display color of photograph information are notoriously well known and expected in the art. Therefore, it would have been obvious to one of ordinary skill in the art to modify the Sannoh device to include the use of a color determination unit and histogram computing unit to calculate the

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number of pixels of each color within an image to adjust the display color of photograph information in order to prevent the photograph information from disappearing in the image in the event that the image background and the photograph information are the same color.

- 8. In regard to claim 8, note Sannoh discloses the use of a display pattern generator which generates a pattern for displaying a plurality of sets of the photograph information (paragraph 0044).
- 9. In regard to claim 9, note Sannoh discloses the use of a display pattern memory which memorizes a predetermined display pattern as a table (paragraph 0033 and 0051, and figure 3).
- 10. In regard to claim 10, note Sannoh discloses the use of an imaging device comprising an electronic camera which images an observation image captured (paragraph 0030 and figure 1), and a display which displays the observation image imaged by the electronic camera and a plurality of sets of photographic information concerning the observation image (paragraph 0042-0044 and figure 1:17).

Therefore, it can be seen that Sannoh fails to disclose that the imaging device is used with a microscope. Official Notice is taken that the concepts and advantages of using a digital camera with a microscope are notoriously well known and expected in the art. Therefore, it would have been obvious to one of ordinary skill in the art to modify the Sannoh device to be used in conjunction with a microscope in order to provide a real time display of microscopic objects to more than one user through the

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use of a display means as well as allowing the storage of a permanent copy of the observed image by recording the captured data.

- 11. In regard to claim 11, note Sannoh discloses that at least one of a line color, a line width and a line type displayed on the display of the plurality of sets of photograph information is settable (paragraph 0044).
- 12. In regard to claim 12, note Sannoh discloses that a plurality of sets of the photograph information concerning the observation image includes at least one of a photometry, a focus, a color balance and a scale (paragraph 0043).
- 13. In regard to claim 13, note Sannoh discloses that at least one of a line color, a line width and a line type displayed on the display of the plurality of sets of photograph information is settable (paragraph 0044).
- 14. In regard to claim 14, note Sannoh discloses the use of an imaging device that displays the observation image along with photograph information and adjusts the color of the photograph information (paragraph 0044). Therefore, it can be seen that Sannoh fails to disclose the use of a complementary color generator which sets a display color of the photograph information to a complementary color of a background image of the observation image. Official Notice is taken that the concepts and advantages of using a complementary color generator to adjust the color of data that is to be displayed along with the image based on the color of the background of the image are notoriously well known and expected in the art. Therefore, it would have been obvious to one of ordinary skill in the art to modify the Sannoh device to include the use of a complementary color generator which sets a display color of the photograph information

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to a complementary color of a background image of the observation image in order to prevent the photograph information from disappearing in the image in case when the image background and the photograph information are the same color.

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15. In regard to claims 15-16, note Sannoh discloses the use of an imaging device that displays the observation image along with photograph information, as claimed in claim 1 above. Therefore, it can be seen that the Sannoh device lacks the use of a color determination unit which determines a color for each one pixel of a background image of the observation image, a histogram computing unit which computes a histogram for each color determined by the color determination unit, and that the display controller sets a display color of a plurality of sets of the photograph information based on the computed histogram. Official Notice is taken that the concepts and advantages of using a color determination unit and histogram computing unit to calculate the number of pixels of each color within an image in order to adjust the display color of photograph information are notoriously well known and expected in the art. Therefore, it would have been obvious to one of ordinary skill in the art to modify the Sannoh device to include the use of a color determination unit and histogram computing unit to calculate the number of pixels of each color within an image to adjust the display color of photograph information in order to prevent the photograph information from disappearing in the image in the event that the image background and the photograph information are the same color.

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16. In regard to claim 17, note Sannoh discloses the use of a display pattern generator which generates a pattern used to display a plurality of sets of the photograph information (paragraph 0044).

17. In regard to claim 18, note Sannoh discloses the use of a display pattern memory which memorizes a predetermined display pattern as a table (paragraph 0044).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US005331419A: note the use of the display of image data along with photograph information that is adjusted based on the background color of the image.

US005689742: note the use of the display of image data along with adjustable annotations.

US005650607A: note the use of the display of photograph information, wherein, the shape, pattern, and color are adjustable.

US 20030067551A1: note the use of the display of image data along with photograph information.

US 20010040629: note the use of the display of image data along with photograph information with different line characteristics.

US007173660B2: note the use of the display of image data along with photograph information.

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US 2002008765: note the use of the display of image data along with photograph information with different line characteristics

US006888567B2: note the use of the display of image data along with shaded regions of interest.

US003812288: note the use of a camera used to capture observation images of a microscope and adjust them according to a histogram.

US004453814: note the use of photograph information that is adjusted based on the background color of the image.

US005557358A: note the use of the display of image data along with shaded regions.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chriss S. Yoder, III whose telephone number is (571) 272-7323. The examiner can normally be reached on M-F: 8 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivek Srivastava can be reached on (571) 272-7304. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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CSY March 30, 2007

PRIMARY PATENT EXAMINED